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# Product datasheet for TA590269

## SAP102 (DLG3) Rabbit Polyclonal Antibody

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Applications:** | ELISA |
| **Recommended Dilution:** | WB: 1:5000-1:20000; ELISA: 1:100-1:2000; IHC: 1:10-1:2000; IHC-P 1:250-1:2000 |
| **Reactivity:** | Human |
| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Immunogen:** | DNA immunization. This antibody is specific for the N Terminus Region of the target protein. |
| **Formulation:** | 20 mM Potassium Phosphate, 150 mM Sodium Chloride, pH 7.0 |
| **Concentration:** | 1.17mg/ml |
| **Purification:** | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G) |
| **Conjugation:** | Unconjugated |
| **Storage:** | Store at -20°C as received. |
| **Stability:** | Stable for 12 months from date of receipt. |
| **Gene Name:** | discs large MAGUK scaffold protein 3 |
| **Database Link:** | NP_066943<br>Entrez Gene 1741 Human<br>Q92796 |

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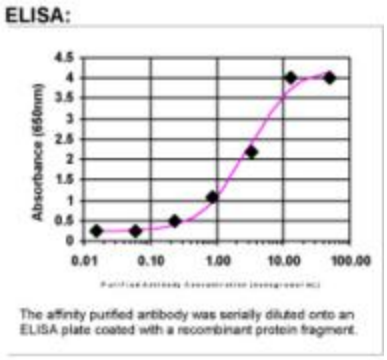
**Background:** Synapse-Associated Protein 102 (SAP102) is one of a family of plasma membrane-associated proteins found in synaptic junctions. Like other members of the family, SAP102 has three ~90 amino acid repeats called PDZ domains followed by an SH3 domain and a yeast guanylate kinase homology (GuK) domain. It is hypothesized that PDZ-domain interactions play a role in receptor and channel clustering which contributes to neuronal plasticity. SAP102 is believed to participate in the clustering of certain proteins, including NMDA receptors, shaker-type potassium channels at the synaptic membrane in CNS neurons. NMDA receptors and Shaker-type potassium channels both share C-terminal sequence homology consisting of a threonine/serine-X-valine-COOH (T/SXV) motif. Other neuronal proteins that share this motif (beta 1 adrenergic receptor, some serotonin receptors, some sodium channel subunits, and additional potassium channel subunits) may interact with SAP102 by binding to its PDZ domains. Neuronal nitric oxide synthase (nNOS), which lacks the T/SXV motif but which has its own PDZ domain, has been shown to associate with SAP102 in vitro through a pseudo-homotypic PDZ-PDZ interaction.

**Synonyms:** MRX; MRX90; NEDLG; PPP1R82; SAP102; XLMR

**Note:** This antibody was generated by SDIX's Genomic Antibody Technology ® (GAT).Learn about GAT

## Product images:




ELISA: SAP102 Antibody - Affinity Purified